

Remark

Applicants respectfully request reconsideration of this application as amended. Claims 39, 52, 53, 55, 62, 65, 68, 70 and 73 have been amended. Claims 1-38 have been canceled. Therefore, claims 39-75 are now presented for examination.

35 U.S.C. § 103 Rejection

Tsatsanis, Henderson and Fishman

Claim 39 is rejected under 35 U.S.C. §103(a) as being unpatentable over Tsatsanis, U.S. Patent Publication No. 2006/0056522 (“Tsatsanis”) in view of Henderson et al., U.S. Patent No. 6,678,375 (“Henderson”), in further view of Fishman, U.S. Patent Publication No. 2004/0157566 (“Fishman”).

As previously mentioned, none of the references show or render obvious supervectoring as described in e.g. paragraph 38 and elsewhere in the specification.

Claim 39 recites, “a vectoring unit also coupled to a plurality of the loops of the multiple loop segment at the controller end of the multiple loop segment, to receive the control signals and to vector transmissions simultaneously through the coupled plurality of the loops of the multiple loop segment, the coupled plurality of the loops being coupled to different CPEs.”

The other independent claims are intended to contain similar limitations to the effect that transmissions through a single segment to multiple different CPEs are simultaneously vectored.

Against these limitations, the Examiner has cited a new reference, Fishman, which describes phase conjugation vectoring. The Examiner refers to “phase conjugated vectoring of transmission signals propagating via a plurality of twisted pairs.” The

Examiner does not suggest and Fishman nowhere describes “simultaneously through the coupled plurality of the loops of the multiple loop segment” nor “the coupled plurality of the loops being coupled to different CPEs” as claimed.

Accordingly, in Fishman as in conventional vectoring, each loop is treated independently of each other loop. In addition, the connection to each CPE is treated differently from each other connection. It does not appear that Fishman adds anything new as prior art to the present invention beyond what has already been done with conventional vectoring.

Because none of the references show a the supervectoring features as claimed, the rejection for obviousness is, respectfully, traversed.

The remaining claims not discussed specifically above are believed to be allowable on the grounds provided above, *inter alia*.

Conclusion

Applicants respectfully submit that the rejections have been overcome by the amendment and remark, and that the claims as amended are now in condition for allowance. Accordingly, Applicants respectfully request the rejections be withdrawn and the claims as amended be allowed.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Request for an Extension of Time

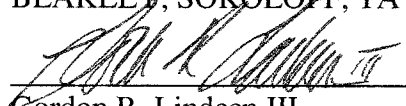
Applicants respectfully petition for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

Charge our Deposit Account

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,
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